

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102414\
 Data File : BE088218.D
 Acq On : 24 Oct 2014 18:15
 Operator : TP/JJ
 Sample : PB79823BS
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PB79823BS

Quant Time: Oct 27 13:12:23 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102414.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 27 13:04:40 2014
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.11	152	40862	5.00	ng	0.00
3) Naphthalene-d8	8.68	136	156737	5.00	ng	0.00
7) Acenaphthene-d10	10.82	164	69952	5.00	ng	0.00
12) Phenanthrene-d10	12.94	188	122862	5.00	ng	0.00
16) Chrysene-d12	18.34	240	67712	5.00	ng	0.00
22) Perylene-d12	21.40	264	63342	5.00	ng	0.00

System Monitoring Compounds						
4) Nitrobenzene-d5	7.80	82	86930	7.44	ng	0.00
8) 2-Fluorobiphenyl	10.01	172	149832	7.68	ng	0.00
18) Terphenyl-d14	16.11	244	102629	9.25	ng	0.00

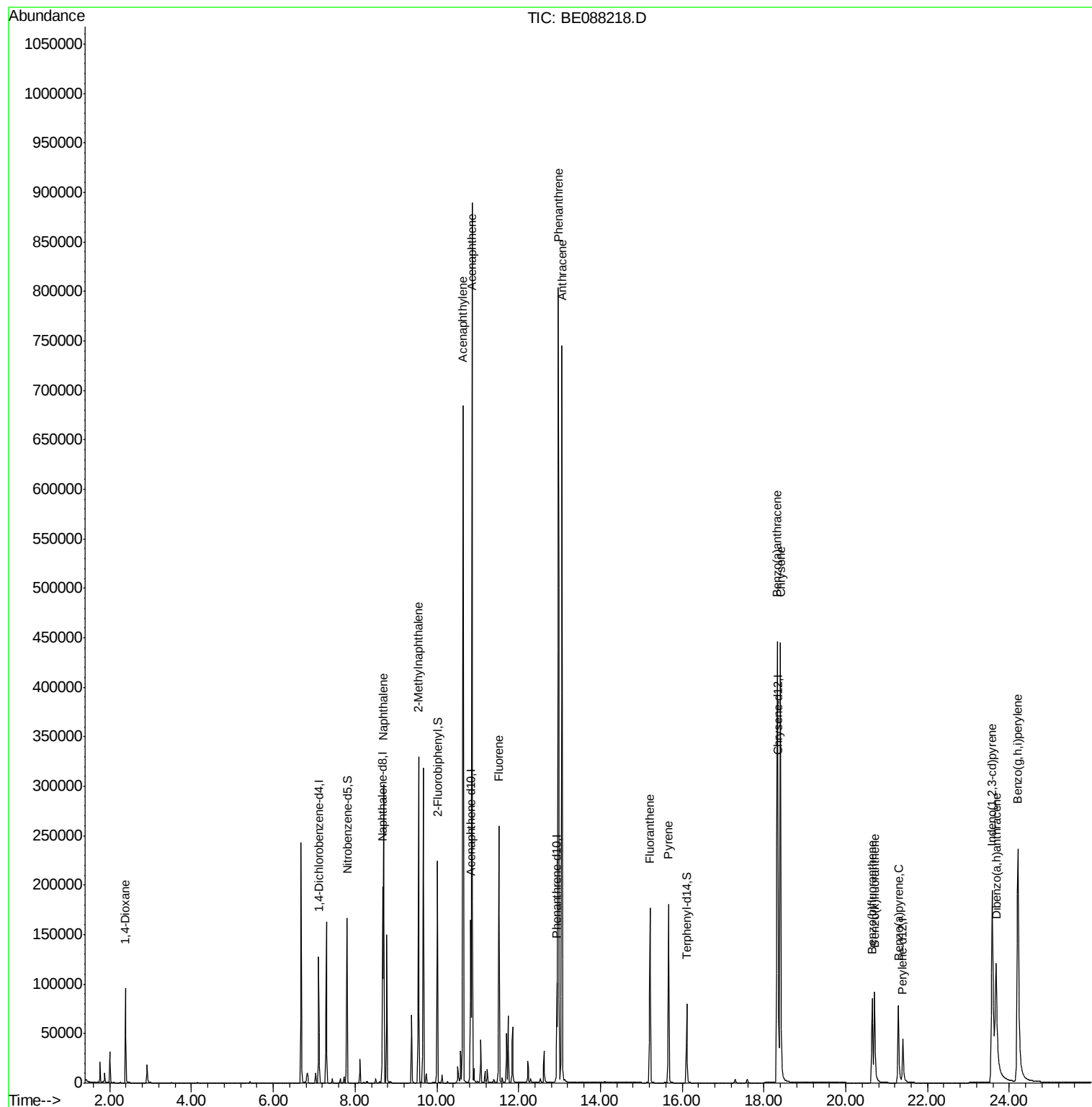
Target Compounds				Qvalue		
2) 1,4-Dioxane	2.38	88	48651	8.55	ng	99
5) Naphthalene	8.70	128	251542	7.89	ng	98
6) 2-Methylnaphthalene	9.55	142	161968	8.43	ng	99
9) Acenaphthylene	10.64	152	855521	8.18	ng	99
10) Acenaphthene	10.86	154	124241	7.51	ng	96
11) Fluorene	11.52	166	135533	8.03	ng	100
13) Phenanthrene	12.97	178	954290	8.05	ng	97
14) Anthracene	13.06	178	775599	8.87	ng	100
15) Fluoranthene	15.21	202	170012	9.46	ng	99
17) Pyrene	15.67	202	180516	9.71	ng	99
19) Benzo(a)anthracene	18.33	228	541805	10.16	ng	99
20) Chrysene	18.40	228	555631	9.18	ng	99
21) Indeno(1,2,3-cd)pyrene	23.58	276	370658	5.85	ng	# 73
23) Benzo(b)fluoranthene	20.65	252	119411	8.83	ng	99
24) Benzo(k)fluoranthene	20.70	252	149779	9.16	ng	99
25) Benzo(a)pyrene	21.29	252	121400	9.04	ng	98
26) Dibenzo(a,h)anthracene	23.68	278	106191	8.24	ng	97
27) Benzo(g,h,i)perylene	24.21	276	500026	9.85	ng	98

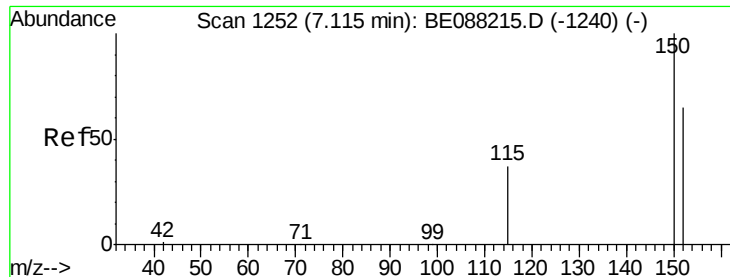
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.11 min Scan# 1252

Delta R.T. -0.00 min

Lab File: BE088218.D

Acq: 24 Oct 2014 18:15

Instrument :

BNA_E

ClientSampleId :

PB79823BS

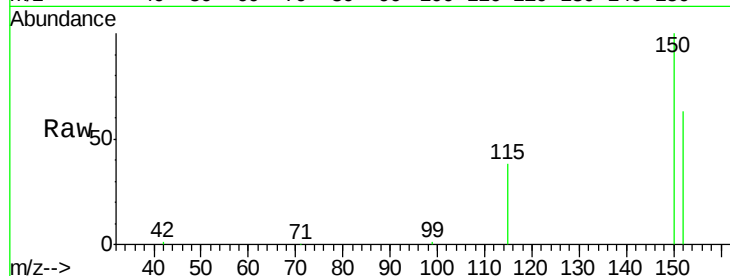
Tgt Ion:152 Resp: 40862

Ion Ratio Lower Upper

152 100

150 159.5 123.2 184.8

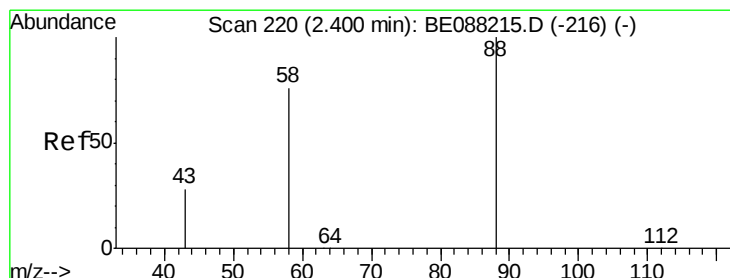
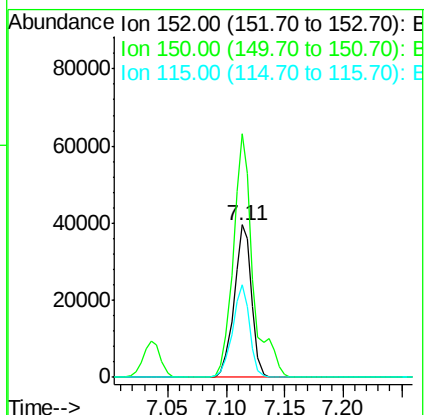
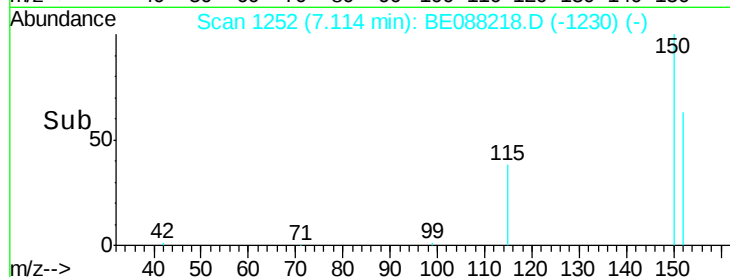
115 61.0 45.3 67.9



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 8.55 ng

RT: 2.38 min Scan# 217

Delta R.T. -0.02 min

Lab File: BE088218.D

Acq: 24 Oct 2014 18:15

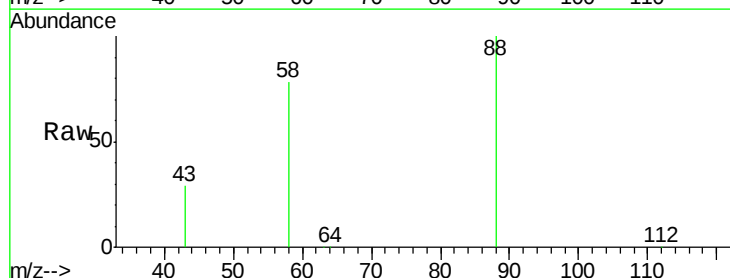
Tgt Ion: 88 Resp: 48651

Ion Ratio Lower Upper

88 100

58 74.9 59.0 88.4

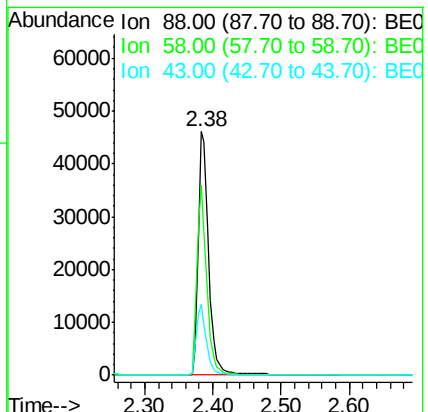
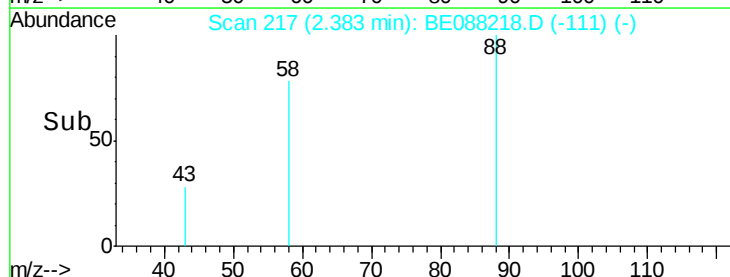
43 28.2 21.9 32.9

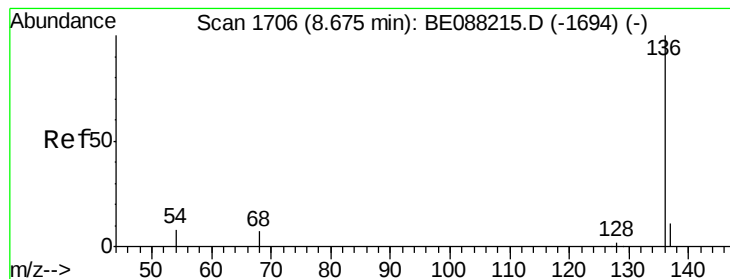


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.68 min Scan# 1707

Delta R.T. 0.00 min

Lab File: BE088218.D

Acq: 24 Oct 2014 18:15

Instrument :

BNA_E

ClientSampleId :

PB79823BS

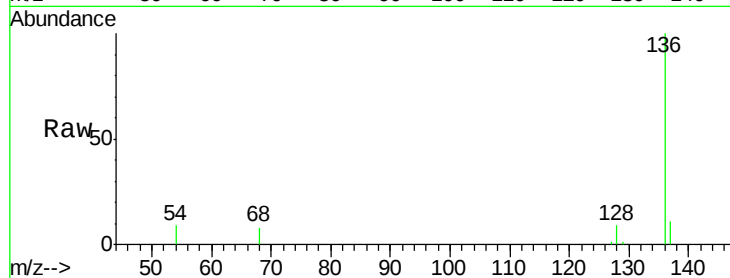
Tgt Ion: 136 Resp: 156737

Ion Ratio Lower Upper

136 100

137 10.8 8.7 13.1

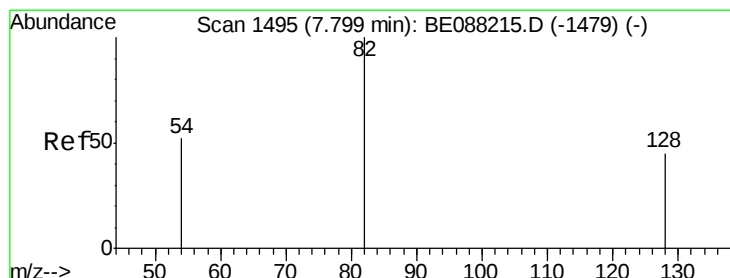
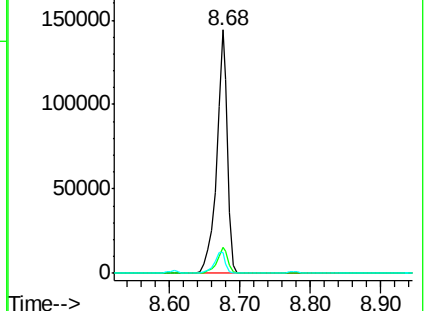
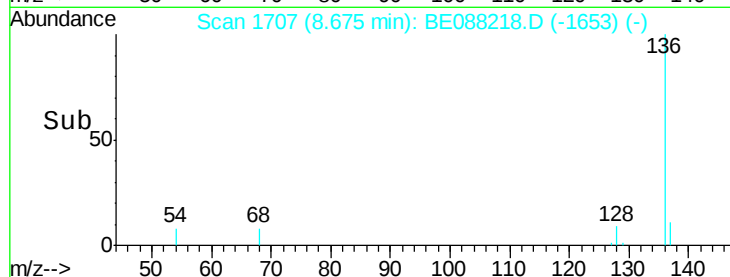
54 8.5 6.1 9.1



Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0



#4

Nitrobenzene-d5

Concen: 7.44 ng

RT: 7.80 min Scan# 1497

Delta R.T. 0.00 min

Lab File: BE088218.D

Acq: 24 Oct 2014 18:15

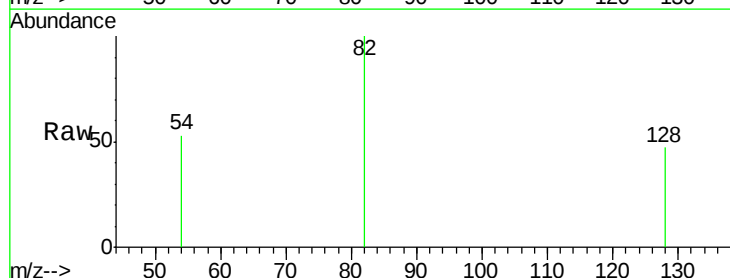
Tgt Ion: 82 Resp: 86930

Ion Ratio Lower Upper

82 100

128 46.7 36.2 54.2

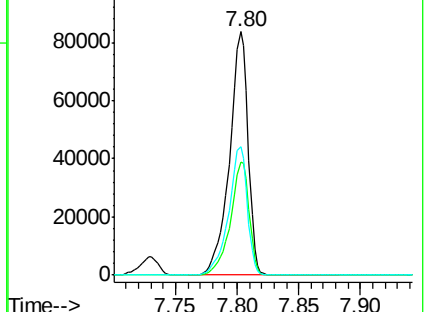
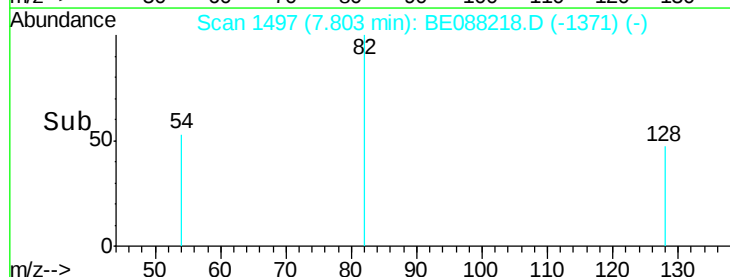
54 52.7 41.8 62.8

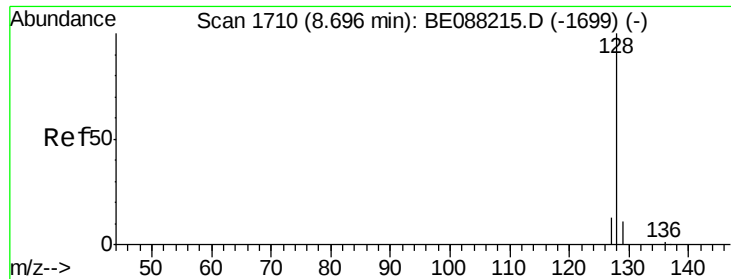


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Naphthalene

Concen: 7.89 ng

RT: 8.70 min Scan# 1712

Delta R.T. 0.01 min

Lab File: BE088218.D

Acq: 24 Oct 2014 18:15

Instrument :

BNA_E

ClientSampleId :

PB79823BS

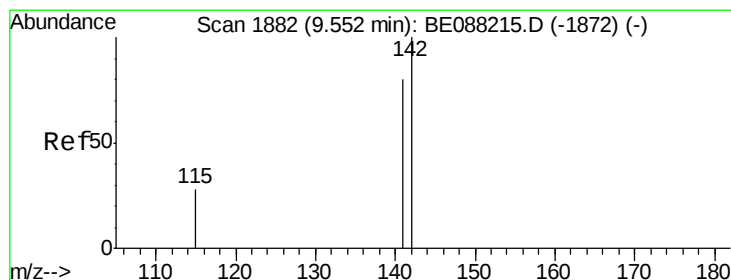
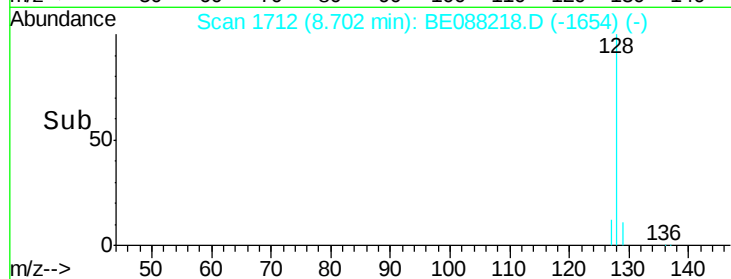
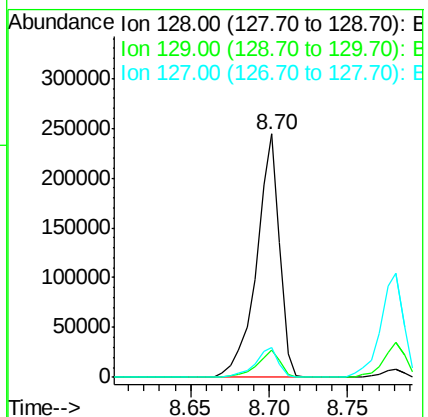
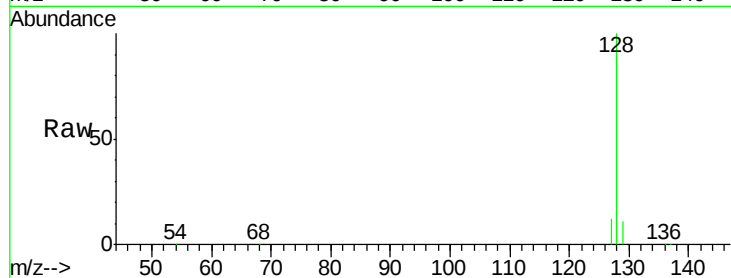
Tgt Ion:128 Resp: 251542

Ion Ratio Lower Upper

128 100

129 11.2 8.6 12.8

127 12.1 10.4 15.6



#6

2-Methylnaphthalene

Concen: 8.43 ng

RT: 9.55 min Scan# 1883

Delta R.T. 0.00 min

Lab File: BE088218.D

Acq: 24 Oct 2014 18:15

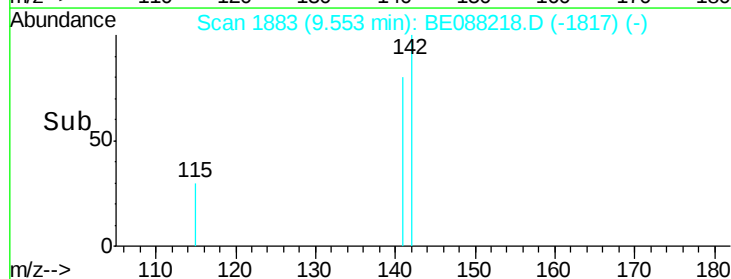
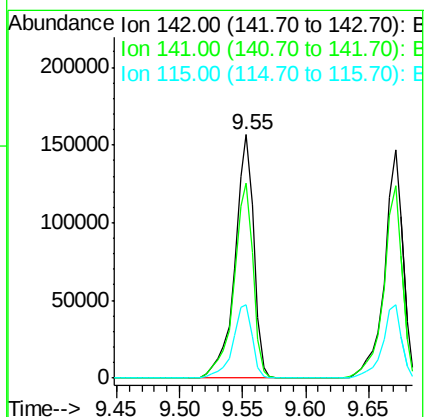
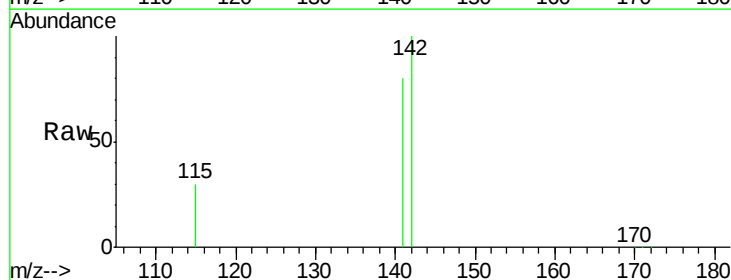
Tgt Ion:142 Resp: 161968

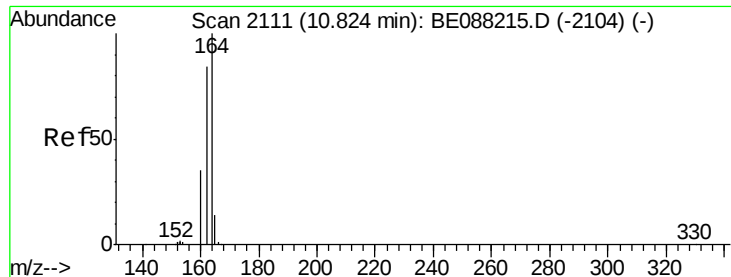
Ion Ratio Lower Upper

142 100

141 80.2 63.7 95.5

115 30.4 22.6 34.0





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.82 min Scan# 2112

Delta R.T. 0.00 min

Lab File: BE088218.D

Acq: 24 Oct 2014 18:15

Instrument :

BNA_E

ClientSampleId :

PB79823BS

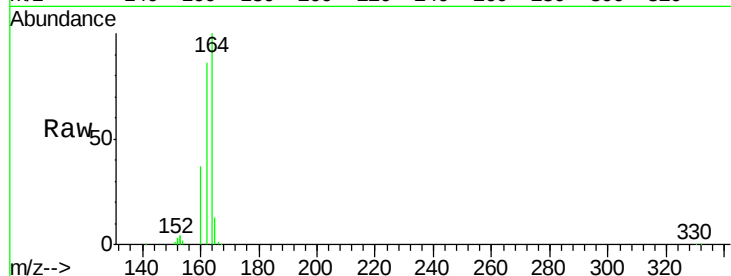
Tgt Ion:164 Resp: 69952

Ion Ratio Lower Upper

164 100

162 86.4 67.4 101.0

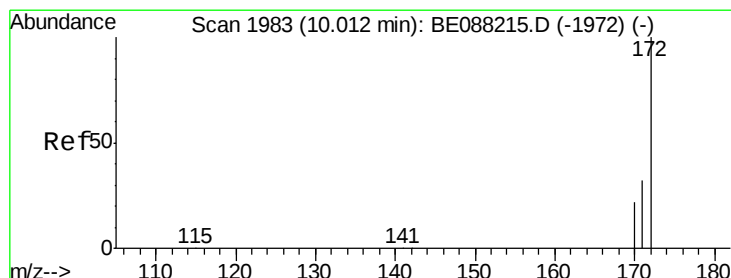
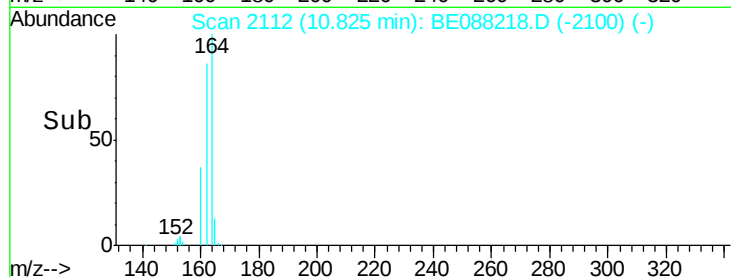
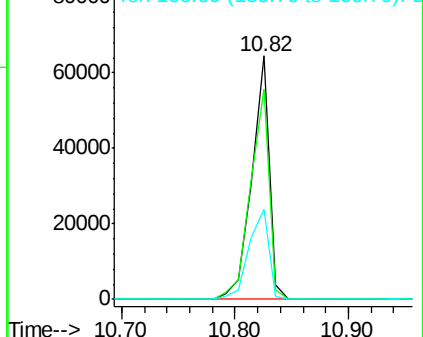
160 37.1 27.7 41.5



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#8

2-Fluorobiphenyl

Concen: 7.68 ng

RT: 10.01 min Scan# 1984

Delta R.T. 0.00 min

Lab File: BE088218.D

Acq: 24 Oct 2014 18:15

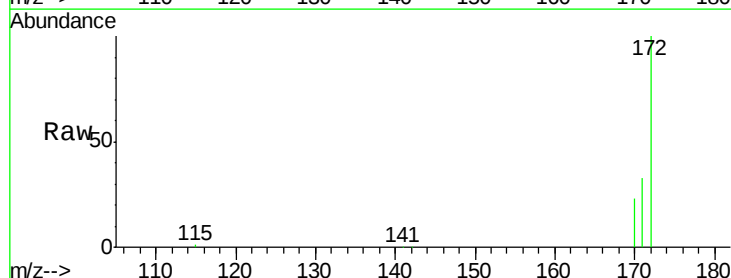
Tgt Ion:172 Resp: 149832

Ion Ratio Lower Upper

172 100

171 32.6 25.8 38.6

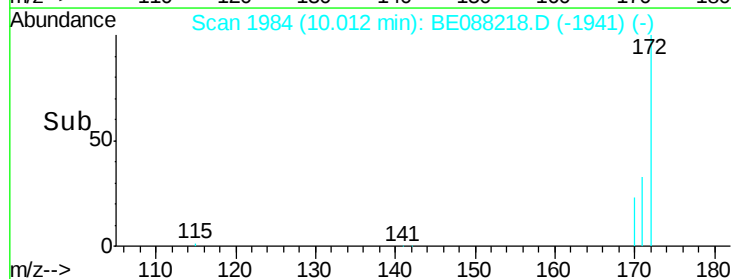
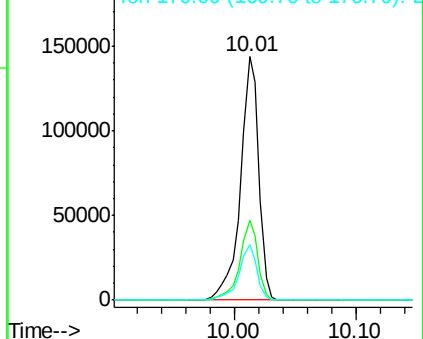
170 22.7 17.4 26.0

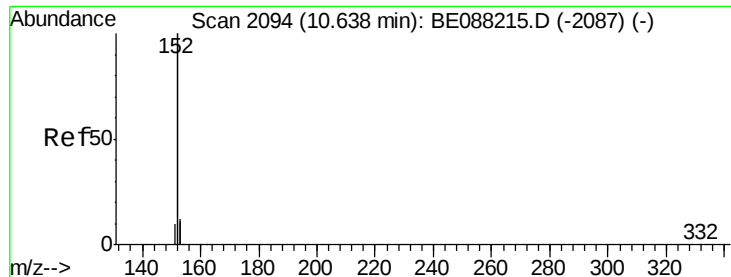


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#9

Acenaphthylene

Concen: 8.18 ng

RT: 10.64 min Scan# 2095

Delta R.T. 0.00 min

Lab File: BE088218.D

Acq: 24 Oct 2014 18:15

Instrument :

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ClientSampleId :

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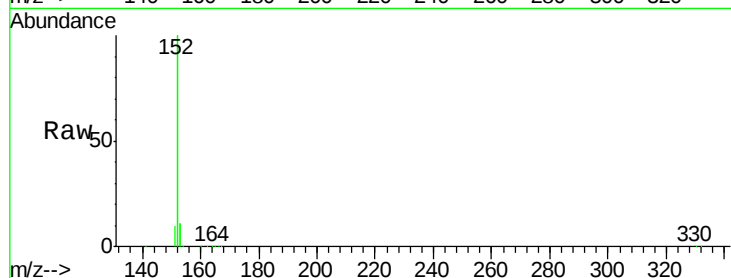
Tgt Ion:152 Resp: 855521

Ion Ratio Lower Upper

152 100

151 4.6 3.7 5.5

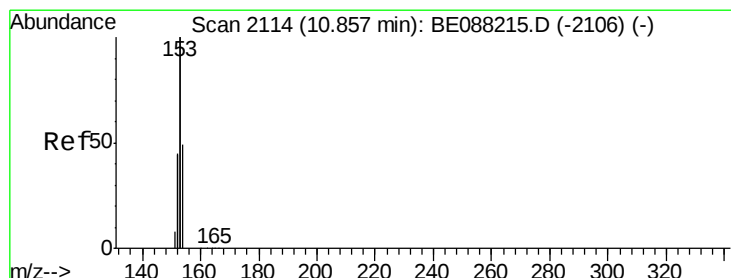
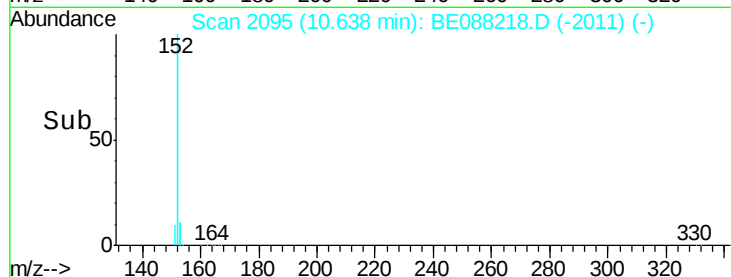
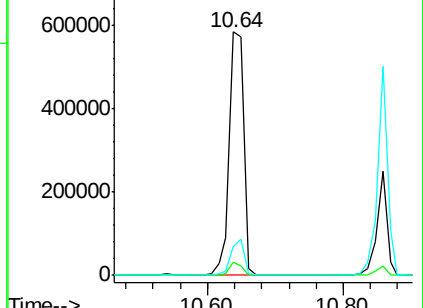
153 13.2 10.3 15.5



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#10

Acenaphthene

Concen: 7.51 ng

RT: 10.86 min Scan# 2115

Delta R.T. 0.00 min

Lab File: BE088218.D

Acq: 24 Oct 2014 18:15

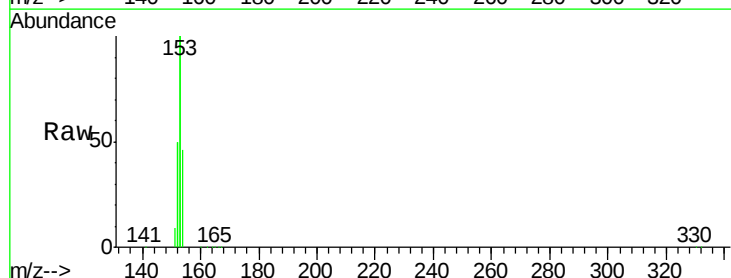
Tgt Ion:154 Resp: 124241

Ion Ratio Lower Upper

154 100

153 415.0 326.0 489.0

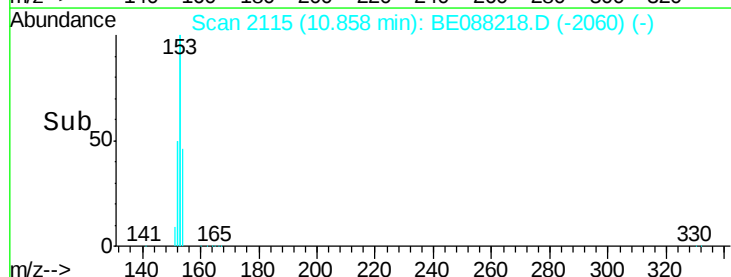
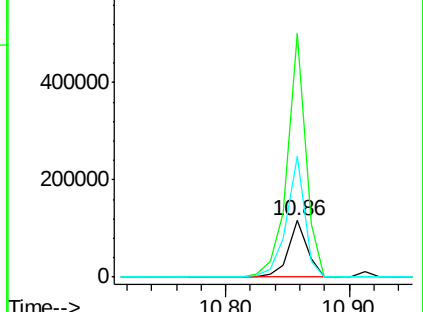
152 203.3 155.6 233.4

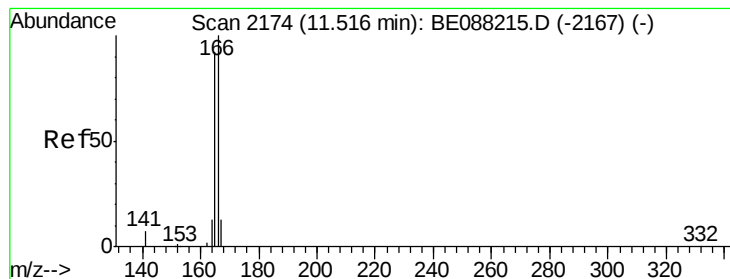


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#11

Fluorene

Concen: 8.03 ng

RT: 11.52 min Scan# 2175

Delta R.T. 0.00 min

Lab File: BE088218.D

Acq: 24 Oct 2014 18:15

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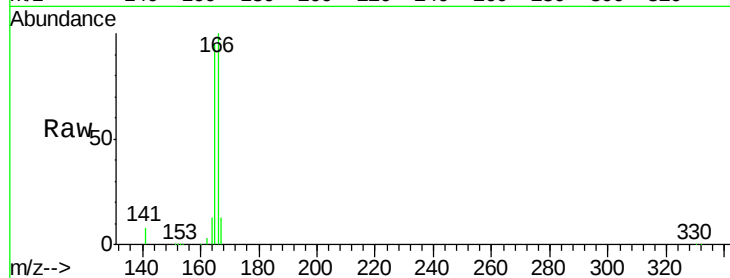
Tgt Ion:166 Resp: 135533

Ion Ratio Lower Upper

166 100

165 90.0 71.8 107.6

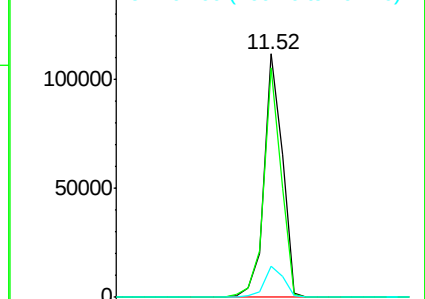
167 13.5 10.7 16.1



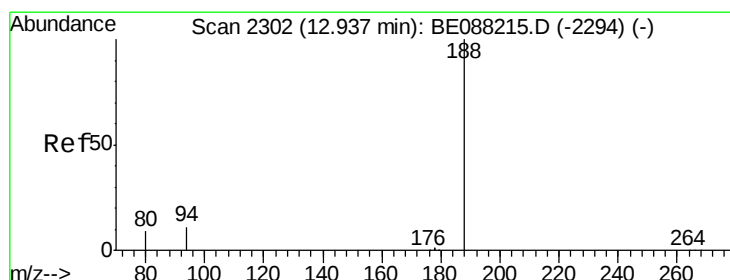
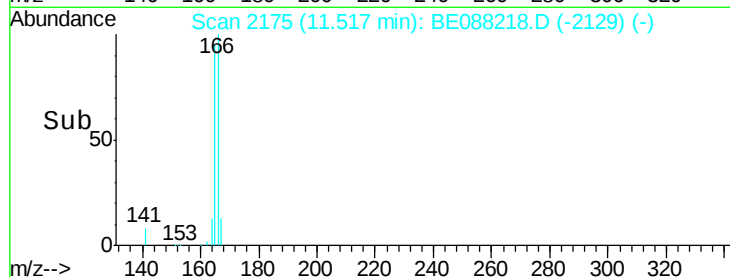
Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



Time-->



#12

Phenanthrene-d10

Concen: 5.00 ng

RT: 12.94 min Scan# 2303

Delta R.T. 0.00 min

Lab File: BE088218.D

Acq: 24 Oct 2014 18:15

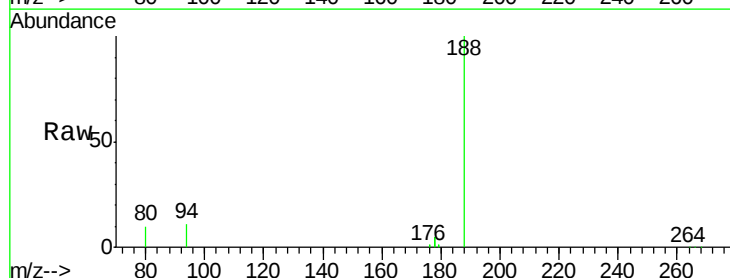
Tgt Ion:188 Resp: 122862

Ion Ratio Lower Upper

188 100

94 11.1 8.5 12.7

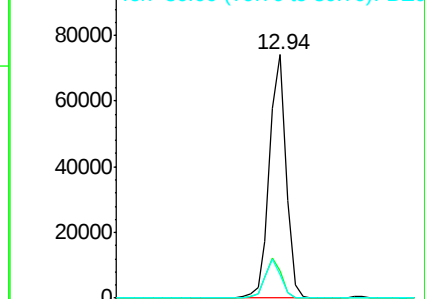
80 9.7 7.4 11.0



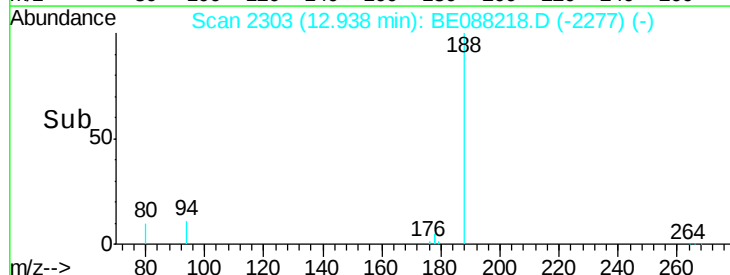
Abundance Ion 188.00 (187.70 to 188.70): E

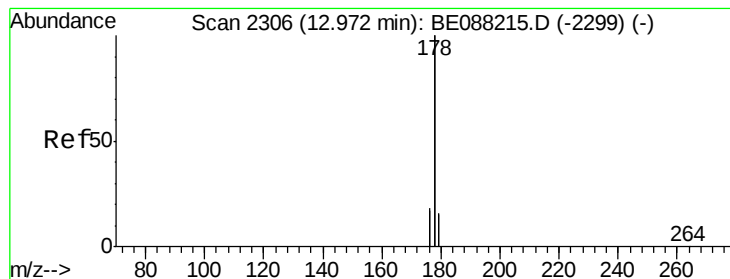
Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



Time-->





#13

Phenanthrene

Concen: 8.05 ng

RT: 12.97 min Scan# 2307

Delta R.T. 0.00 min

Lab File: BE088218.D

Acq: 24 Oct 2014 18:15

Instrument :

BNA_E

ClientSampleId :

PB79823BS

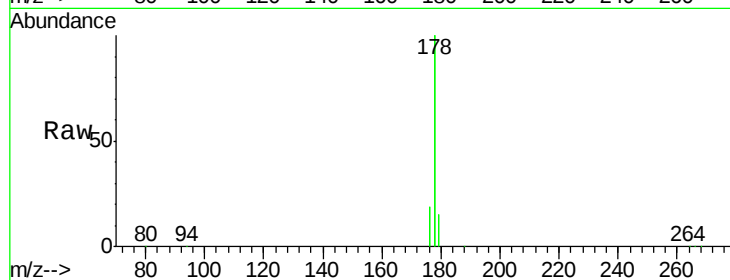
Tgt Ion:178 Resp: 954290

Ion Ratio Lower Upper

178 100

176 18.8 14.0 21.0

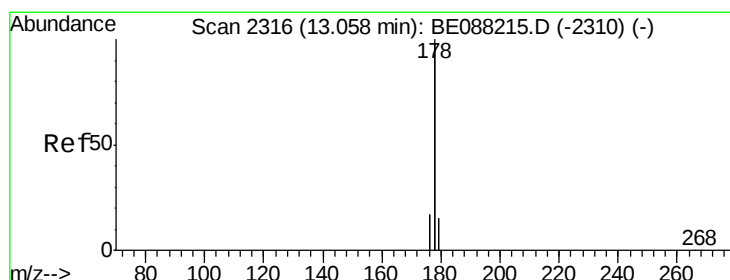
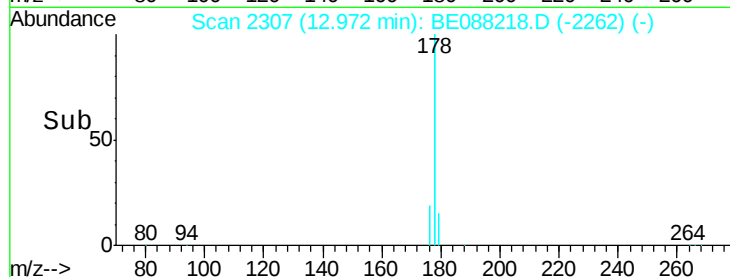
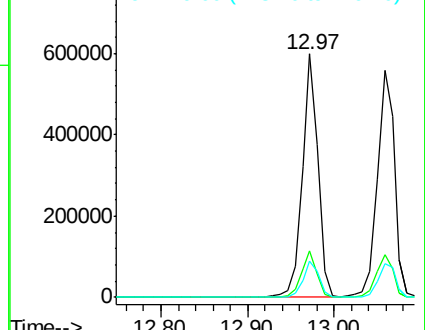
179 15.5 11.8 17.6



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#14

Anthracene

Concen: 8.87 ng

RT: 13.06 min Scan# 2317

Delta R.T. 0.00 min

Lab File: BE088218.D

Acq: 24 Oct 2014 18:15

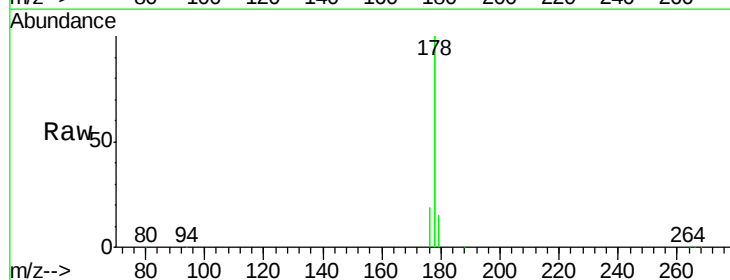
Tgt Ion:178 Resp: 775599

Ion Ratio Lower Upper

178 100

176 18.2 14.7 22.1

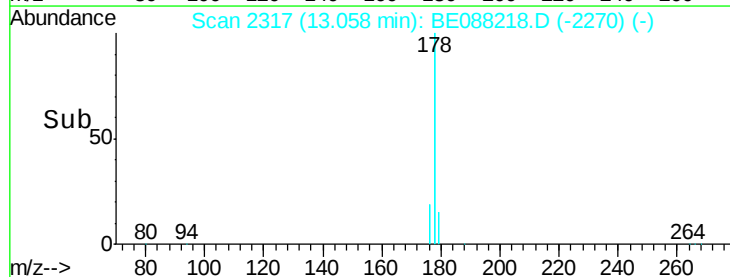
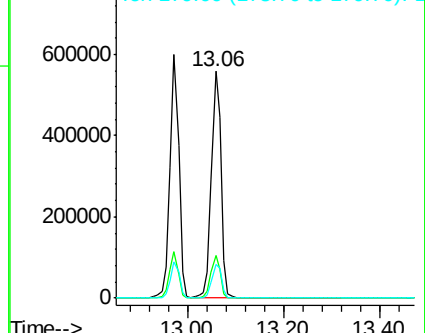
179 15.3 12.3 18.5

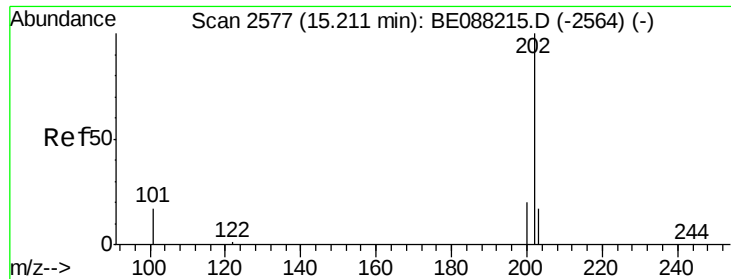


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

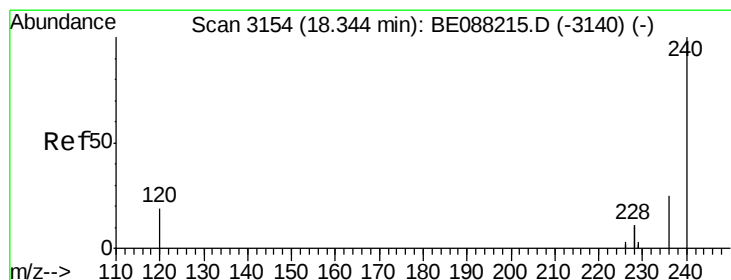
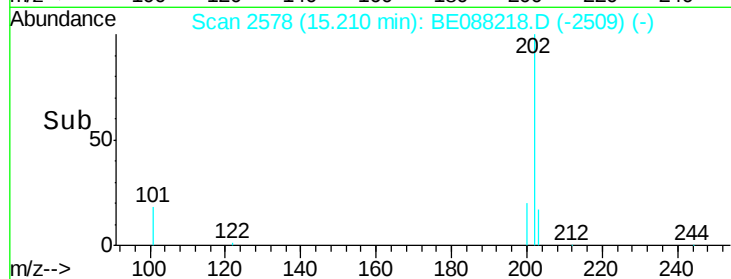
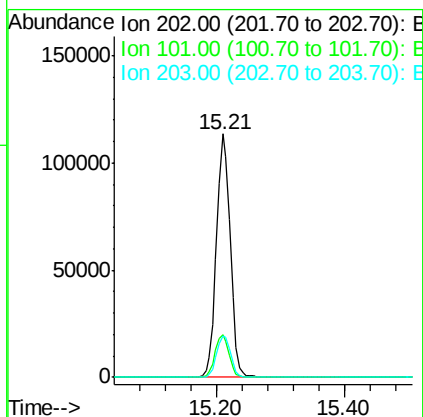
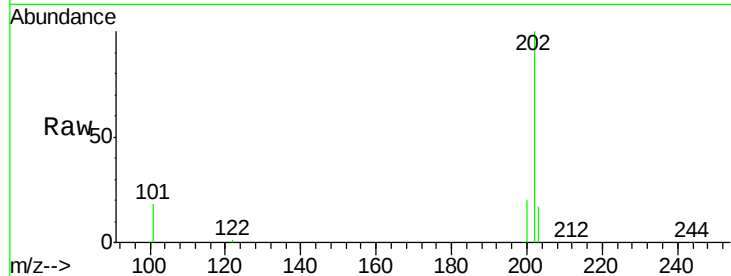




#15
 Fluoranthene
 Concen: 9.46 ng
 RT: 15.21 min Scan# 2578
 Delta R.T. -0.00 min
 Lab File: BE088218.D
 Acq: 24 Oct 2014 18:15

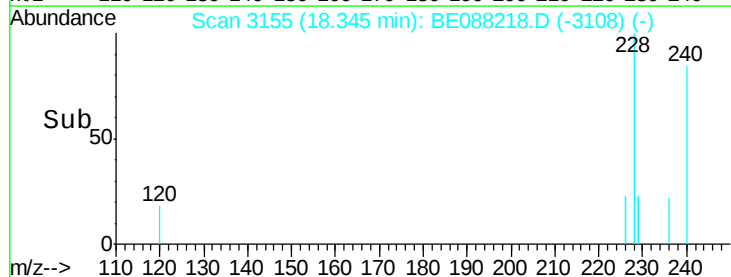
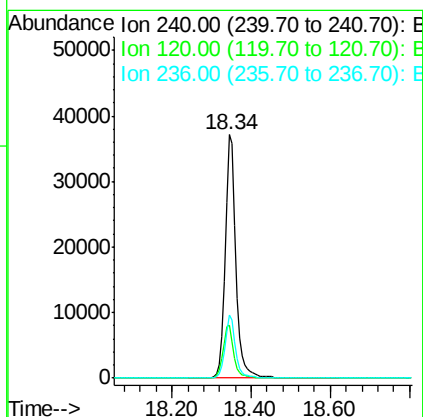
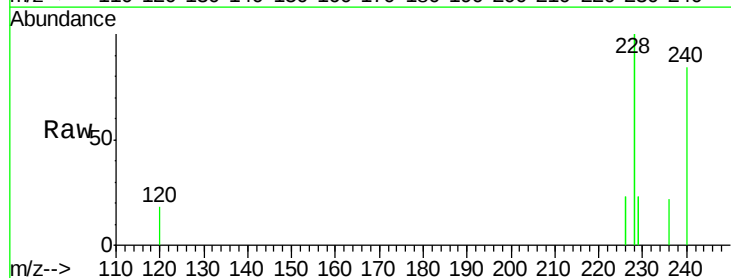
Instrument :
 BNA_E
 ClientSampleId :
 PB79823BS

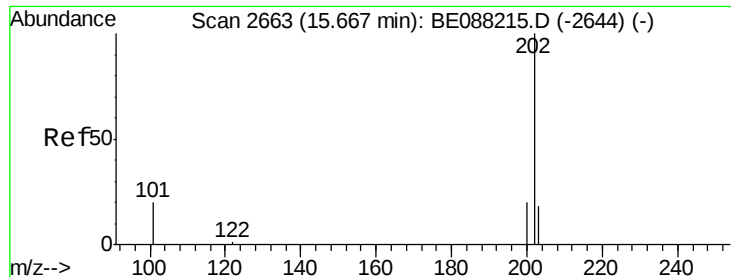
Tgt Ion: 202 Resp: 170012
 Ion Ratio Lower Upper
 202 100
 101 17.9 14.4 21.6
 203 17.4 13.4 20.2



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.34 min Scan# 3155
 Delta R.T. 0.00 min
 Lab File: BE088218.D
 Acq: 24 Oct 2014 18:15

Tgt Ion: 240 Resp: 67712
 Ion Ratio Lower Upper
 240 100
 120 21.7 15.1 22.7
 236 25.7 20.1 30.1

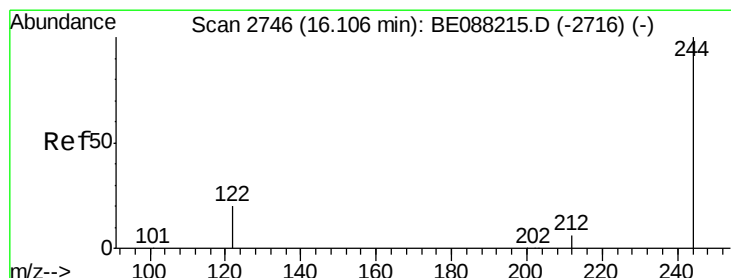
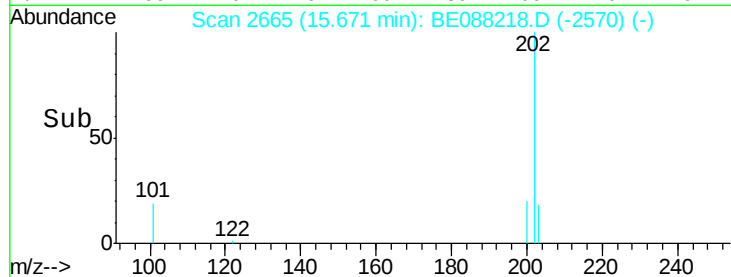
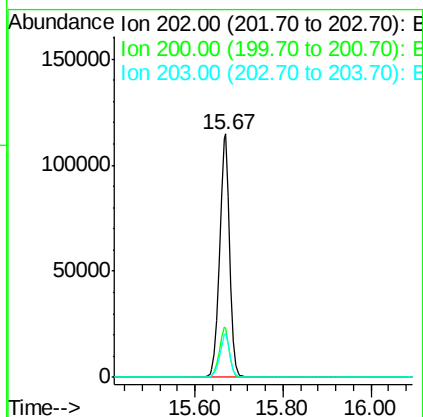
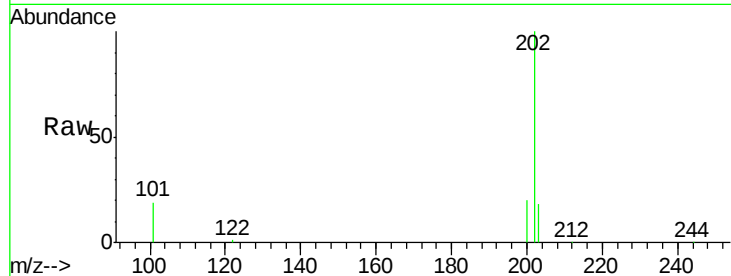




#17
 Pyrene
 Concen: 9.71 ng
 RT: 15.67 min Scan# 2665
 Delta R.T. 0.00 min
 Lab File: BE088218.D
 Acq: 24 Oct 2014 18:15

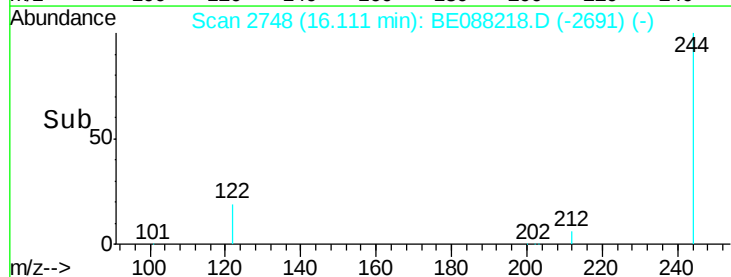
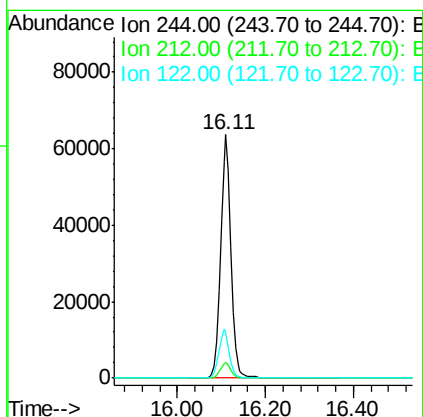
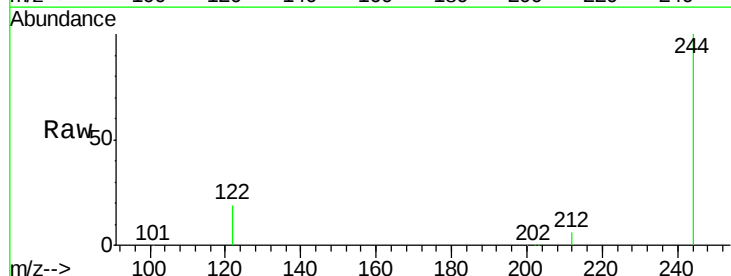
Instrument :
 BNA_E
 ClientSampleId :
 PB79823BS

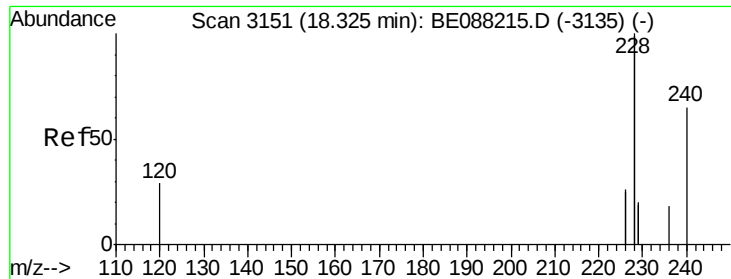
Tgt Ion: 202 Resp: 180516
 Ion Ratio Lower Upper
 202 100
 200 20.4 16.2 24.2
 203 17.8 13.8 20.8



#18
 Terphenyl-d14
 Concen: 9.25 ng
 RT: 16.11 min Scan# 2748
 Delta R.T. 0.00 min
 Lab File: BE088218.D
 Acq: 24 Oct 2014 18:15

Tgt Ion: 244 Resp: 102629
 Ion Ratio Lower Upper
 244 100
 212 6.5 5.4 8.2
 122 18.6 16.7 25.1





#19

Benzo(a)anthracene

Concen: 10.16 ng

RT: 18.33 min Scan# 3152

Delta R.T. 0.00 min

Lab File: BE088218.D

Acq: 24 Oct 2014 18:15

Instrument :

BNA_E

ClientSampleId :

PB79823BS

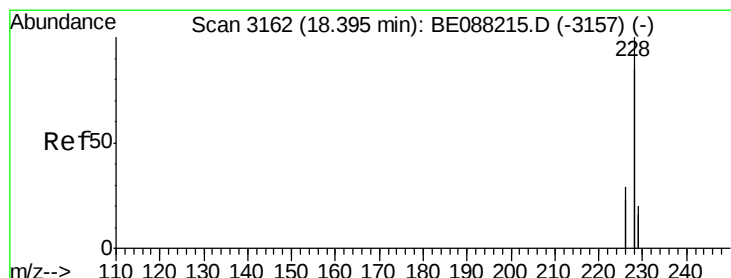
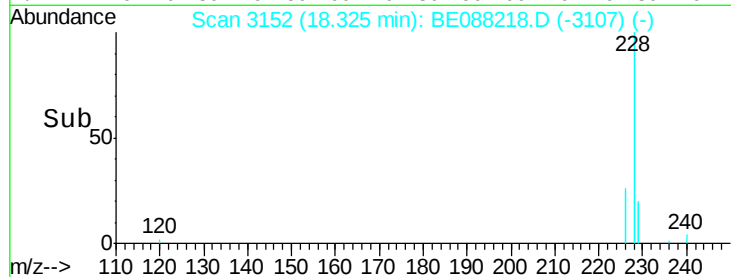
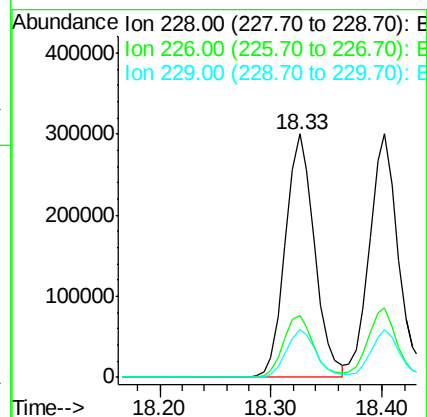
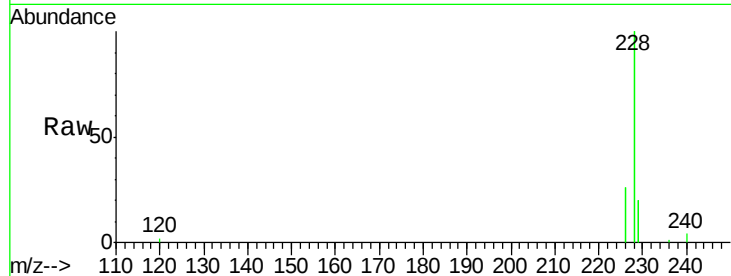
Tgt Ion:228 Resp: 541805

Ion Ratio Lower Upper

228 100

226 25.6 20.5 30.7

229 19.6 16.1 24.1



#20

Chrysene

Concen: 9.18 ng

RT: 18.40 min Scan# 3164

Delta R.T. 0.01 min

Lab File: BE088218.D

Acq: 24 Oct 2014 18:15

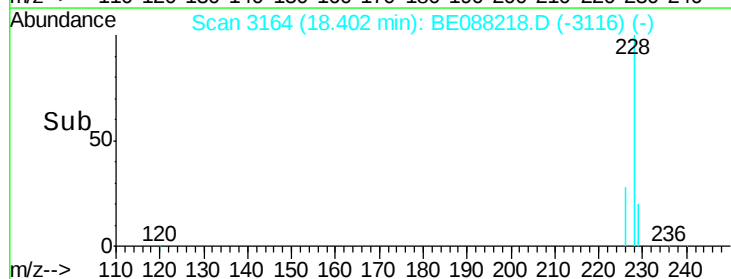
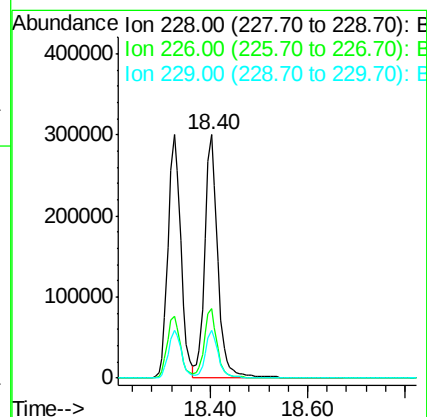
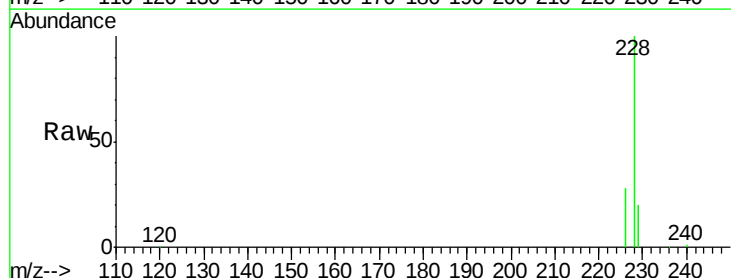
Tgt Ion:228 Resp: 555631

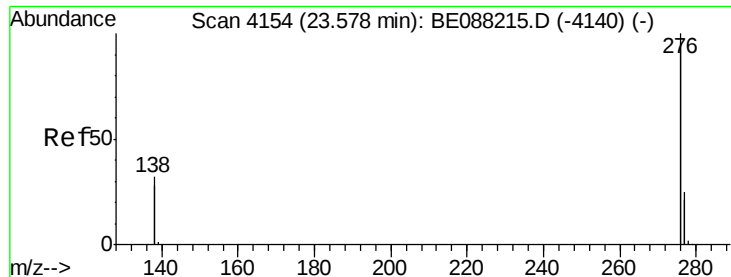
Ion Ratio Lower Upper

228 100

226 28.4 23.3 34.9

229 19.6 15.6 23.4





#21

Indeno(1,2,3-cd)pyrene

Concen: 5.85 ng

RT: 23.58 min Scan# 4156

Delta R.T. 0.01 min

Lab File: BE088218.D

Acq: 24 Oct 2014 18:15

Instrument :

BNA_E

ClientSampleId :

PB79823BS

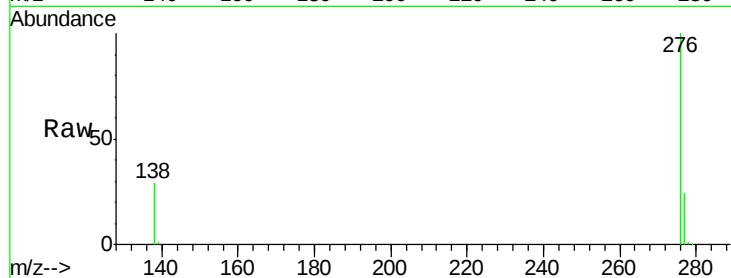
Tgt Ion:276 Resp: 370658

Ion Ratio Lower Upper

276 100

138 29.8 13.9 20.9#

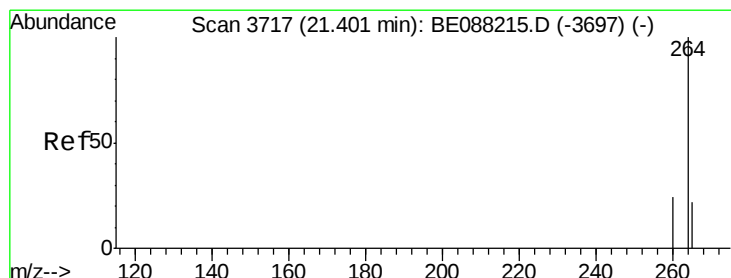
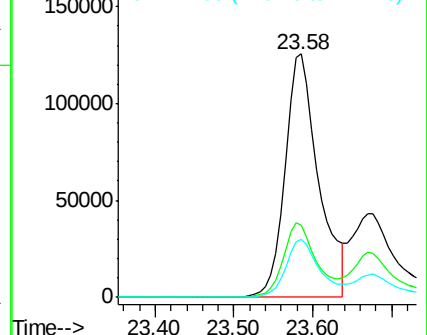
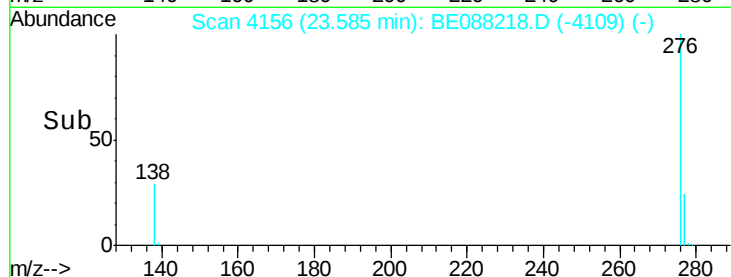
277 23.7 10.7 16.1#



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#22

Perylene-d12

Concen: 5.00 ng

RT: 21.40 min Scan# 3717

Delta R.T. -0.00 min

Lab File: BE088218.D

Acq: 24 Oct 2014 18:15

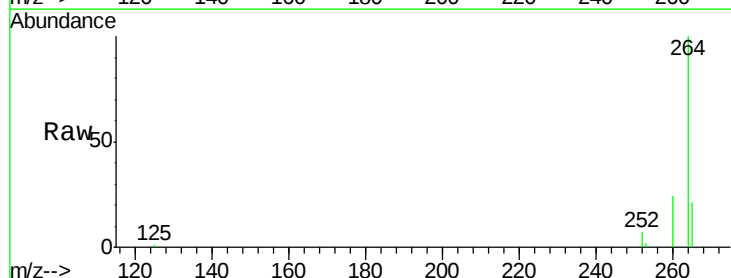
Tgt Ion:264 Resp: 63342

Ion Ratio Lower Upper

264 100

260 23.8 19.0 28.4

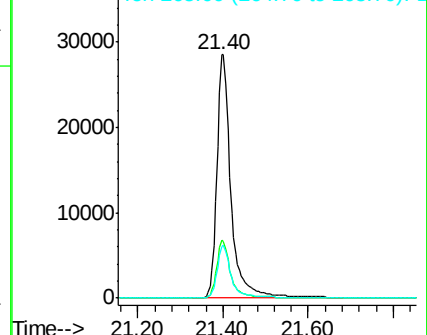
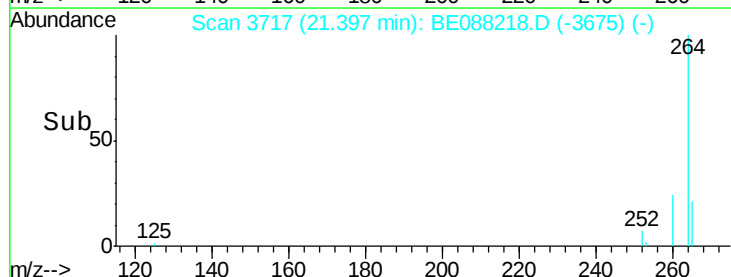
265 21.3 17.4 26.2

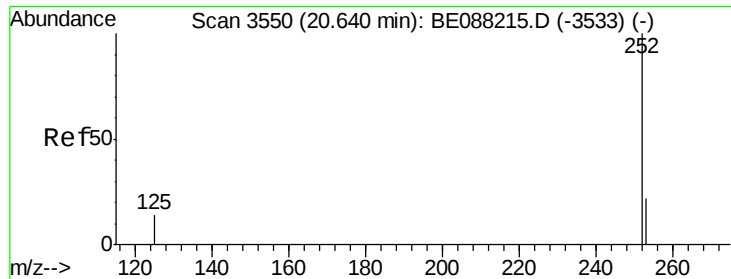


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 8.83 ng

RT: 20.65 min Scan# 3552

Delta R.T. 0.01 min

Lab File: BE088218.D

Acq: 24 Oct 2014 18:15

Instrument :

BNA_E

ClientSampleId :

PB79823BS

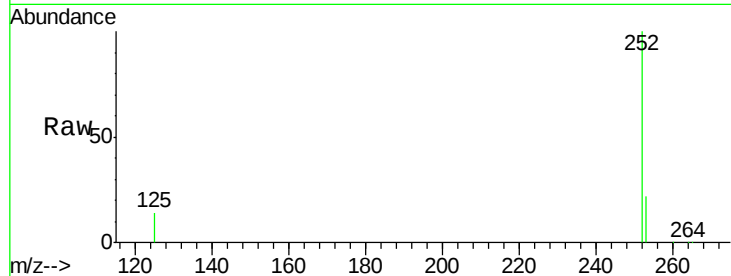
Tgt Ion:252 Resp: 119411

Ion Ratio Lower Upper

252 100

253 22.0 17.9 26.9

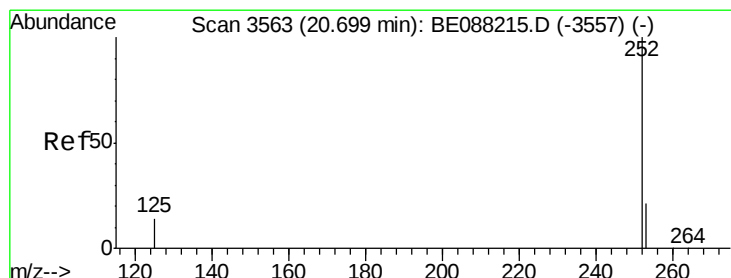
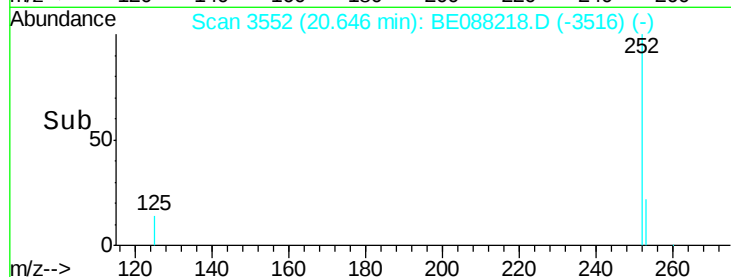
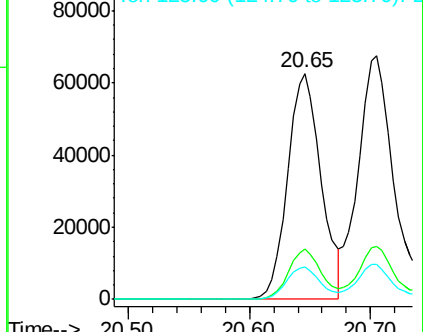
125 14.2 12.2 18.2



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#24

Benzo(k)fluoranthene

Concen: 9.16 ng

RT: 20.70 min Scan# 3565

Delta R.T. 0.01 min

Lab File: BE088218.D

Acq: 24 Oct 2014 18:15

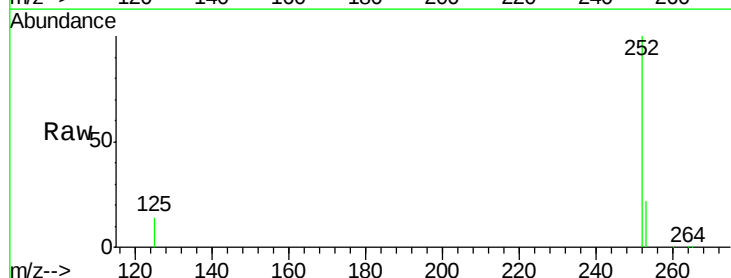
Tgt Ion:252 Resp: 149779

Ion Ratio Lower Upper

252 100

253 22.0 17.6 26.4

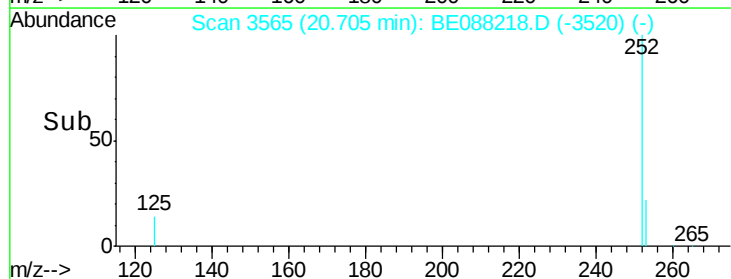
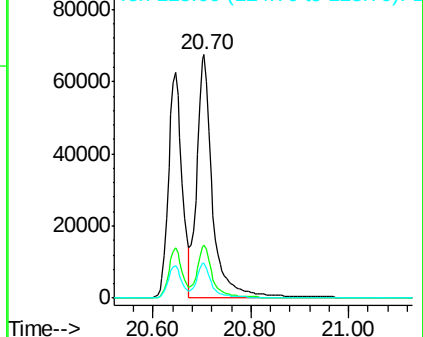
125 14.1 12.1 18.1

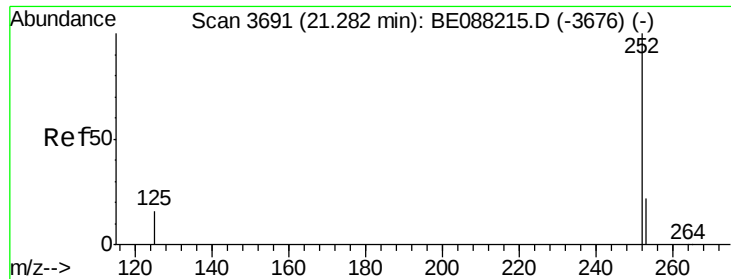


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#25

Benzo(a)pyrene

Concen: 9.04 ng

RT: 21.29 min Scan# 3693

Delta R.T. 0.01 min

Lab File: BE088218.D

Acq: 24 Oct 2014 18:15

Instrument :

BNA_E

ClientSampleId :

PB79823BS

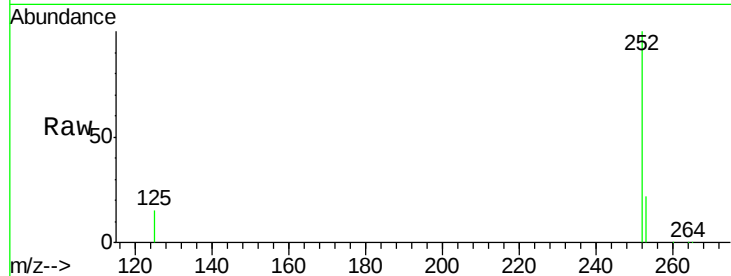
Tgt Ion: 252 Resp: 121400

Ion Ratio Lower Upper

252 100

253 22.1 17.8 26.8

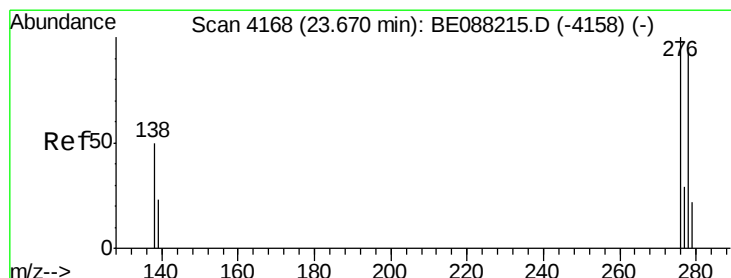
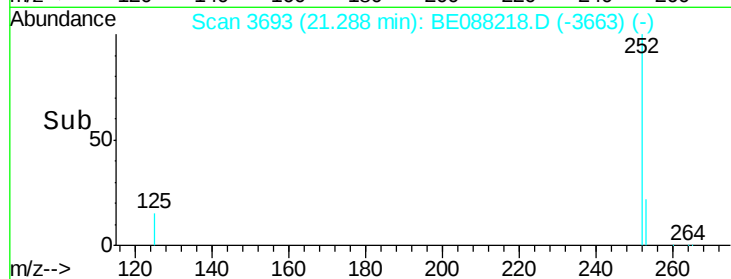
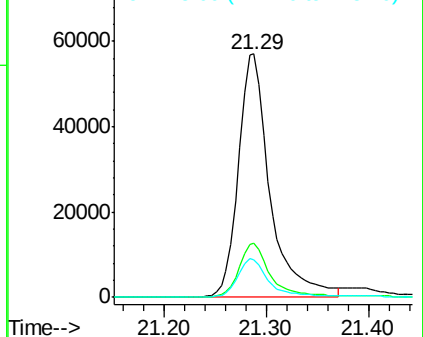
125 15.4 13.5 20.3



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#26

Dibenzo(a,h)anthracene

Concen: 8.24 ng

RT: 23.68 min Scan# 4170

Delta R.T. 0.01 min

Lab File: BE088218.D

Acq: 24 Oct 2014 18:15

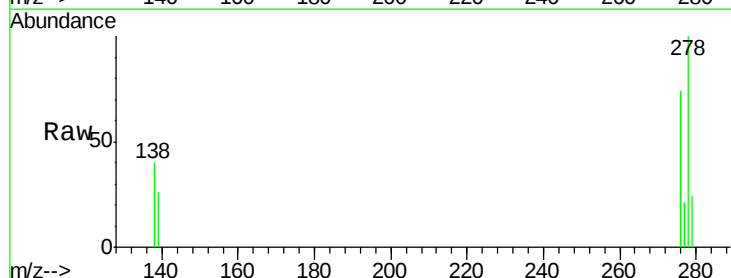
Tgt Ion: 278 Resp: 106191

Ion Ratio Lower Upper

278 100

139 25.7 22.1 33.1

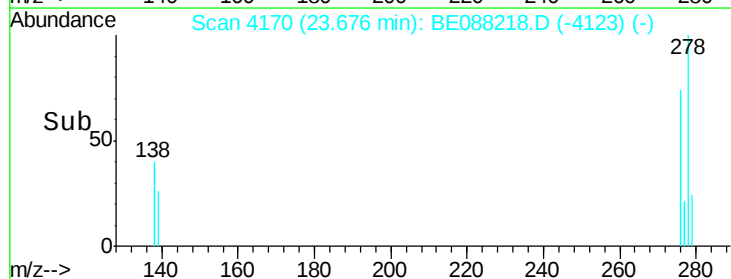
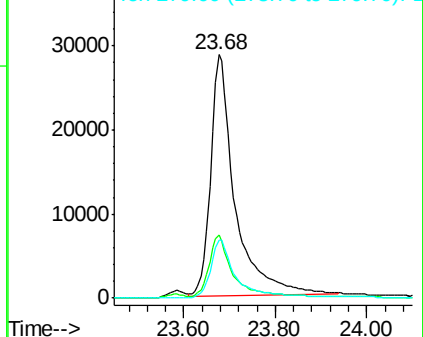
279 23.7 20.2 30.2

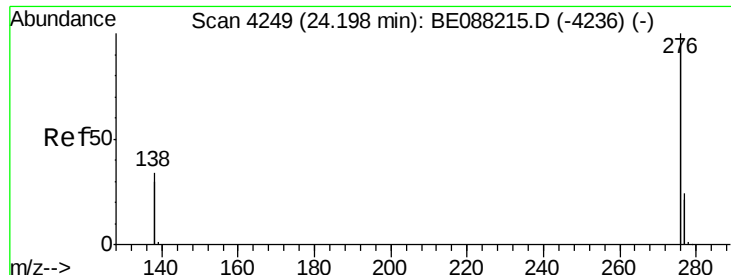


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#27

Benzo(g,h,i)perylene

Concen: 9.85 ng

RT: 24.21 min Scan# 4252

Delta R.T. 0.01 min

Lab File: BE088218.D

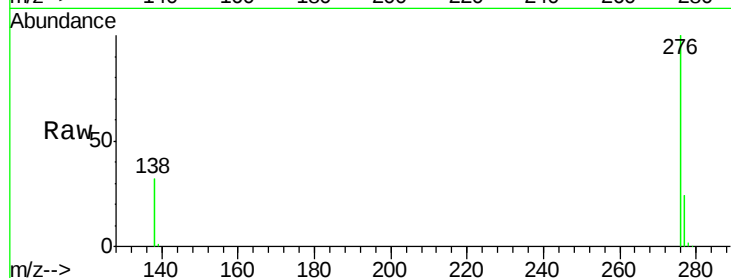
Acq: 24 Oct 2014 18:15

Instrument :

BNA_E

ClientSampleId :

PB79823BS



Tgt Ion: 276 Resp: 500026

Ion Ratio Lower Upper

276 100

277 23.8 19.4 29.2

138 32.3 27.3 40.9

Abundance Ion 276.00 (275.70 to 276.70): E
Ion 277.00 (276.70 to 277.70): E
Ion 138.00 (137.70 to 138.70): E

